



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/898,293	07/02/2001	Min Young Eom	2060-3-03	2239
35884	7590	11/30/2004	EXAMINER	
LEE, HONG, DEGERMAN, KANG & SCHMADEKA, P.C. 801 SOUTH FIQUEROA STREET 14TH FLOOR LOS ANGELES, CA 90017			TRAN, THIEN D	
			ART UNIT	PAPER NUMBER
			2665	

DATE MAILED: 11/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. **09/898,293**

Applicant(s)

EOM, MIN YOUNG

Examiner

Thien D Tran

Art Unit

2665

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 July 0201.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5,8-12,15-19 and 21-25 is/are rejected.
- 7) ☒ Claim(s) 6,7,13,14,20 and 26 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-5, 8-12, 15-19, 21-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barraclough et al (U.S Publication No. 2001/0024436 A1).

Regarding claims 1, 15 Barraclough discloses a gateway system for use in a communication network for communicating PCM data with a remote system connected to the communication network, paragraph 0042, the gateway system comprising:

a plurality SLICs, figures 2 and 4 (voice processing units), hereinafter voice processing unit, each voice processing unit having a unique IP format and preparing compressed data from the PCM data and further converting the compressed data into packets, figure 4;

a HUB in communication with the plurality of voice processing units; and a CPU 140 (main processing unit), herein after main processing unit, figure 4, in communication with the plurality of voice processing units and the HUB, paragraph 0025, the main processing unit having a IP format for communicating with the remote system, wherein the main processing unit receives the unique IP format of the plurality

Art Unit: 2665

of voice processing units and the packets and converts the packets into a protocol stack for communicating on the communication network, paragraph 0029.

Barroclough does not disclose that the SLICs (voice processing units) having their own unique IP addresses and the CPU has its main IP address, wherein the communication uses the main IP address in lieu of the unique IP addresses of the SLICs (voice processing units). However, it would have been obvious to one having ordinary skill in the art to have the feature of the IP addresses of SLICs (voice processing units) being combined to become the main IP address and used in the communication network to reduce the complexity of address's signaling and increase the effectiveness of address management at the gateway.

Regarding claims 2, 16 Barraclough discloses each one of the plurality of voice processing units uses G.723.1 standard protocol to compress the PCM data, paragraph 0028.

Regarding claims 3, 17 Barraclough does not disclose each one of the plurality of voice processing units uses G.729 standard protocol. However, it would have been to one having ordinary skill in the art have the feature of G.729 used in the voice processing units because it is a matter of design choice for economic reasons.

Regarding claims 4, 18 Barraclough discloses the packets are converted into the protocol stack using H.323 standard protocol, paragraph 0026.

Regarding claims 5, 19 Barraclough discloses the plurality of voice processing units are in communication with the HUB using Ethernet connections, paragraph 0025.

Regarding claims 8, 21 Barraclough discloses a gateway system for use in a communication network for communicating PCM data with a remote system connected to the communication network, paragraph 0042, the gateway system comprising:

a plurality SLICs, figures 2 and 4 (voice processing units), hereinafter voice processing unit, each voice processing unit having a unique IP format and preparing compressed data from the PCM data and further converting the compressed data into packets, figure 4;

a HUB in communication with the plurality of voice processing units; and a CPU 140 (main processing unit), herein after main processing unit, figure 4, in communication with the plurality of voice processing units and the HUB, paragraph 0025, the main processing unit having a IP format for communicating with the remote system, wherein the main processing unit receives a protocol stack from the remote system, disassemble the protocol stack into the packets, figure 4, paragraph 0029.

Barraclough does not disclose that the main processing unit selects idling voice processing unit and sends the packets with the unique IP address corresponding to the idling voice processing unit. However, it would have been obvious to one having ordinary skill in the art have the feature of the main processing unit selects idling voice processing unit and sends the packets with the unique IP address corresponding to the idling voice processing unit because the idle voice processing unit is the free processing unit so that it is available to process data.

Art Unit: 2665

Regarding claims 9, 22 Barraclough discloses each one of the plurality of voice processing units uses G.723.1 standard protocol to compress the PCM data, paragraph 0028.

Regarding claims 10, 23 Barraclough does not disclose each one of the plurality of voice processing units uses G.729 standard protocol. However, it would have been to one having ordinary skill in the art have the feature of G.729 used in the voice processing units because it is a matter of design choice for economic reasons.

Regarding claims 11, 24 Barraclough discloses the packets are converted into the protocol stack using H.323 standard protocol, paragraph 0026.

Regarding claims 12, 25 Barraclough discloses the plurality of voice processing units are in communication with the HUB using Ethernet connections, paragraph 0025.

Allowable Subject Matter

3. Claims 6, 7, 13, 14, 20, 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.


Conclusion

4. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Thien Tran whose telephone number is (571) 272-3156. The examiner can normally be reached on Monday-Friday from 8:30AM to 5:00PM.

Art Unit: 2665

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached on (571) 272-3155. Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

Thien Tran



STEVEN NGUYEN
PRIMARY EXAMINER